

Title (en)  
DETECTION OF CHEMICALS WITH INFRARED LIGHT

Title (de)  
NACHWEIS VON CHEMIKALIEN DURCH INFRAROTLICHT

Title (fr)  
DÉTECTION DE SUBSTANCES CHIMIQUES PAR LUMIÈRE INFRAROUGE

Publication  
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Application  
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Abstract (en)  
[origin: WO2009055370A1] The present invention is generally directed to a method for non-contact or stand off chemical detection by selectively exciting one or more analytes of interest using an IR source tuned to at least one specific absorption band without significantly decomposing the analyte and determining if the analyte is present by comparing emitted photons with an IR detector signal made before and during or shortly after exciting the analyte. Another embodiment of the present invention provides a method for non-contact or stand off chemical detection by selectively exciting one or more analytes of interest using an IR source tuned to at least one specific absorption band without significantly decomposing the analyte, wherein the analyte is excited sufficiently to generate a vapor plume, and wherein the plume is examined to detect the presence of the analyte. Additionally, the present invention provides for a system for non-contact or stand off chemical detection.

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